

IL-4 active protein

Human IL-4

CATALOG # AAA79236	HOST E Coli	REACTIVITY Human
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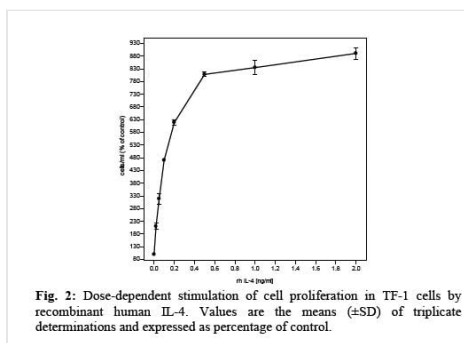
PRODUCT SYNONYMS

IL-4; Human IL-4; Recombinant Human Interleukin-4; Interleukin-4; B-cell stimulating factor; Lymphocyte stimulatory factor 1; IL-4 active protein

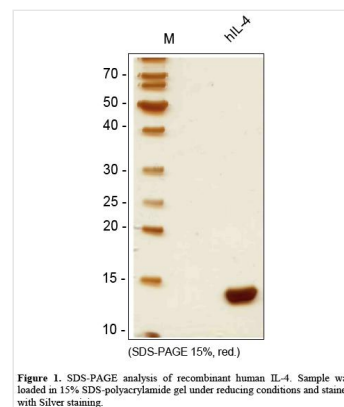
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence:M HKCDITL
Sequence Length	130
Endotoxin Level	< 0.1ng per ig (IEU/ug) of rh IL-4
Buffer	PBS
Preparation and Storage	The lyophilized IL-4, though stable at room temperature, is best stored desiccated below 0 degree C. Reconstituted IL-4 should be stored in working aliquots at -20 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for IL-4 active protein

IL-4 is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. Produced by mast cells, T cells and bone marrow stromal cells, IL-4 regulates the differentiation of naive CD4⁺ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergy. Recombinant human IL-4 is a 14.9 kDa globular protein containing 130 amino acid residues

Product Categories/Family for IL-4 active protein	Cytokines & Growth Factors
References	1. Benczik, M. and S.L. Gaffen (2004) Immunol. Invest. 33:109. 2. Chomarat, P. and J. Banchereau (1998) Int. Rev. Immunol. 17:1. 3. Yokota, T. et al. (1986) Proc. Natl. Acad. Sci. 83:5894. 4. Redfield, C. et al. (1991) Biochemistry 30:11029. 5. Ramirez, F. et al. (1988) J. Immunol. Meth. 221:141. 6. Leitenberg, D. and T.L. Feldbush (1988) Cell. Immunol. 111:451. 7. Mosman, T.R. et al. (1987) J. Immunol. 138:1813. 8. Mueller, T.D. et al. (2002) Biochim. Biophys. Acta 1592:237.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504669
NCBI GeneID	3565
NCBI Accession #	NP_000580
NCBI GenBank Nucleotide #	NM_000589
UniProt Accession #	P05112; Q14630; Q6NZ77
Molecular Weight	14.9 kDa
NCBI Official Full Name	interleukin-4 isoform 1
NCBI Official Synonym Full Names	interleukin 4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	BSF1; IL-4; BCGF1; BSF-1; BCGF-1
NCBI Protein Information	interleukin-4; binetrakin; pitrakinra; B cell growth factor 1; interleukin 4 variant 2; B_cell stimulatory factor 1; lymphocyte stimulatory factor 1
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.